

To: Singhvi, Raj[Singhvi.Raj@epa.gov]
Cc: Gilbert, John[Gilbert.John@epa.gov]
From: Smith, Art
Sent: Wed 1/22/2014 8:45:33 PM
Subject: RE: Confirming ERT's analyses for 4-methylcyclohexanemethanol

Thanks, Raj. That confirms it.

From: Singhvi, Raj
Sent: Wednesday, January 22, 2014 3:43 PM
To: Smith, Art
Subject: RE: Confirming ERT's analyses for 4-methylcyclohexanemethanol

Please see attached MSDS sheet(CAS 348850-03-5). This is the chemical we analyzed for. The standard was received from Niranjana Selar of Cincinnati lab. CAS 34885-03-5

I hope I have answered your concern/ questions.

From: Smith, Art
Sent: Wednesday, January 22, 2014 2:58 PM
To: Gilbert, John
Cc: Singhvi, Raj
Subject: Confirming ERT's analyses for 4-methylcyclohexanemethanol

The MSDS that was sent by Raj is for a different chemical than what was reportedly stored at Freedom Industries in Charleston, WV. The MSDS sent by Raj is for 1,4-Cyclohexanedimethanol (CAS No. 105-08-8). The "Crude MCHM" stored at Freedom Industries was produced by Eastman Chemical (see attached MSDS). According to their MSDS, the main ingredient in that mixture is 4-methylcyclohexanemethanol (CAS 34885-03-5). Eastman's MSDS indicates that 1,4-Cyclohexanedimethanol is present in the mixture but at 1%-2% by weight.

So, just to confirm what we did here: did we analyze for the 4-MCHM and report accordingly, or was it the 1,4-Cyclohexanedimethanol?

Thanks.

From: Gilbert, John
Sent: Monday, January 20, 2014 4:19 PM
To: Smith, Art
Subject: FW: Ohio River sample Results for 4-MethylCyclohexaneMethanol (cis and Trans)

Art,

Looks like Raj's numbers are on track with Louisville Water.

I only read the email, and have not looked at the actual report.

I have sent this only to your, send this onto anyone you want.

Give me a call tonight, or tomorrow morning.

-John | ERT | 513-607-1571 (cell)

From: Singhvi, Raj
Sent: Monday, January 20, 2014 4:02 PM
To: Gilbert, John
Cc: Compton, Harry; Carpenter, Angela; Heimerman, Jeffrey; Barr, Pamela;

Subject: Ohio River sample Results for 4-MethylCyclohexaneMethanol (cis and Trans)

John,

Please find attached MSDS data , analysis results , and Chain of custody for the 12 samples for 4-MethylCyclohexaneMethanol . The sample results shows the presence of 4-MethylCyclohexaneMethanol at low ppb level (0.31 to 0.66 ppb). The analytical method was developed based on EPA Method SW 8270, and all requirement for NEALC were met. The SOP (SERAS 1857) for GC/MS is under preparation based on method developed on fast track.

If there are any questions, Please call me.

Thanks.

-Raj

**Results of the Analysis for
4-Methylcyclohexane Methanol (Cis & Trans) in Water
WA # 0-47001 MCHM Ohio River Site**

Sample Number	Concentration µg/L		Reporting Limits µg/L
WBLK011914	U		0.500
Site 1 Vertical 1	0.660		0.500
Site 1 Vertical 2	0.370	J	0.560
Site 1 Vertical 3	0.640		0.500
Site 2 Vertical 1	0.620		0.530
Site 2 Vertical 2	0.460	J	0.560
Site 2 Vertical 3	0.570		0.560
Site 3 Vertical 1	0.480	J	0.540
Site 3 Vertical 2	0.450	J	0.530
Site 3 Vertical 3	0.560		0.500
Site 4 Vertical 1	0.320	J	0.550

Site 4 Vertical 2	0.310	J	0.500
Site 4 Vertical 3	0.420	J	0.500

"J" Denotes the result was less than the reporting limit.